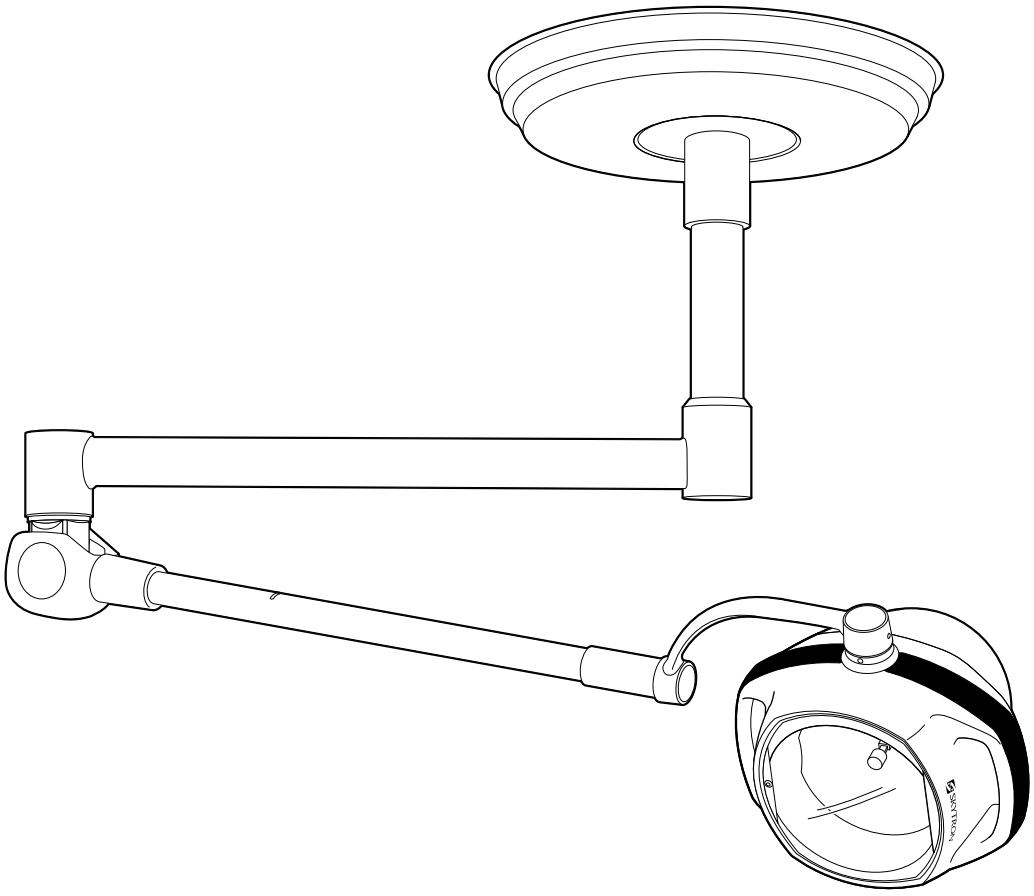
SKYTRON

STELLAR ST9 SERIES
EXAMINATION LIGHTS



OPERATORS • MAINTENANCE • PARTS

REV 8/05

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REV 8/05

Although current at the time of publication, SKYTRON'S policy of continuous development makes this manual subject to change without notice.

EQUIPMENT LABELS AND SPECIFICATIONS

ATTENTION, CONSULT MANUAL FOR FURTHER INSTRUCTIONS.
INDICATES SPECIAL USER ATTENTION.

AC VOLTAGE

FUSE TYPE 1.75 AMP, FAST ACTING (FA)

CLASS I DEFIBRILLATION PROOF, TYPE B EQUIPMENT- IPX4 RATED.
INTERNALLY POWERED EQUIPMENT

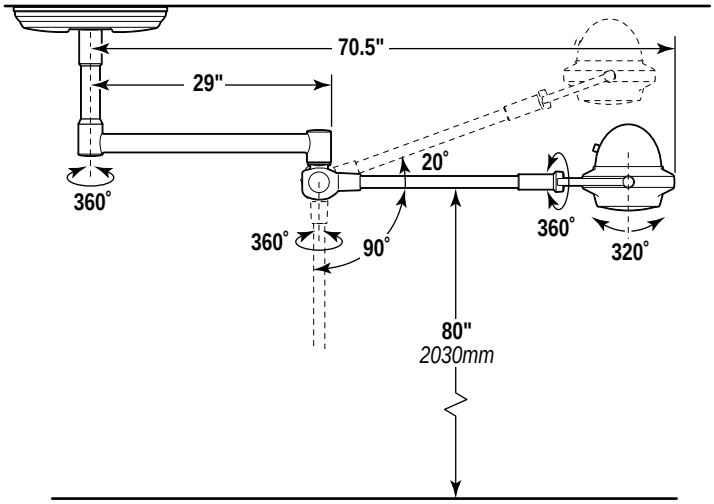
FOR DRY LOCATIONS
UNIT TO BE USED ONLY IN SPECIFIED ENVIRONMENTAL CONDITIONS
TEMPERATURE: 15˚ - 30˚ C (60˚ -85˚ F)
HUMIDITY: 30% - 60% RELATIVE HUMIDITY, NON CONDENSING

ENTELA CERTIFIED
TO UL2601-1
CAN/CSA601.1, IEC 60601-2-46

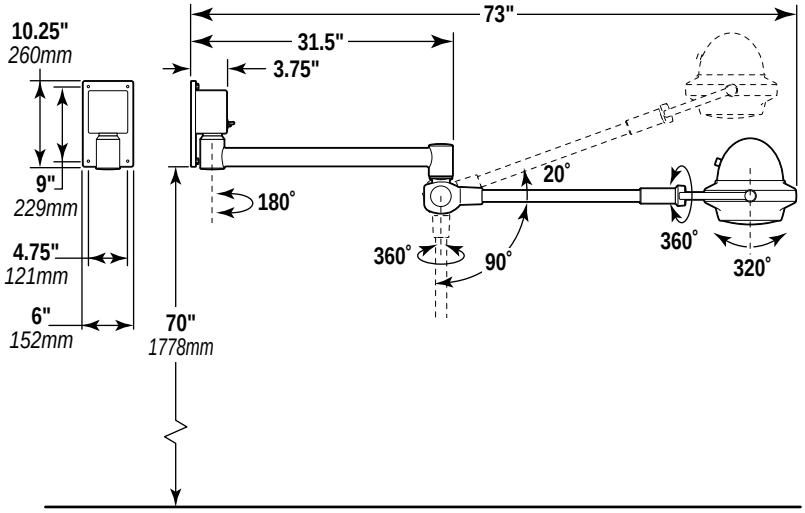
RECOMMENDED TOOL LIST

1 PIN PUNCH SET 1/8", 1/4" & 3/16"
1 SET OF PHILLIPS SCREWDRIVERS
1 SET OF FLAT BLADE SCREWDRIVERS
1 DIGITAL LEVEL
1 METRIC, L-TYPE ALLEN WRENCH SET 1.5-8mm
1 TRUE RMS MULTIMETER

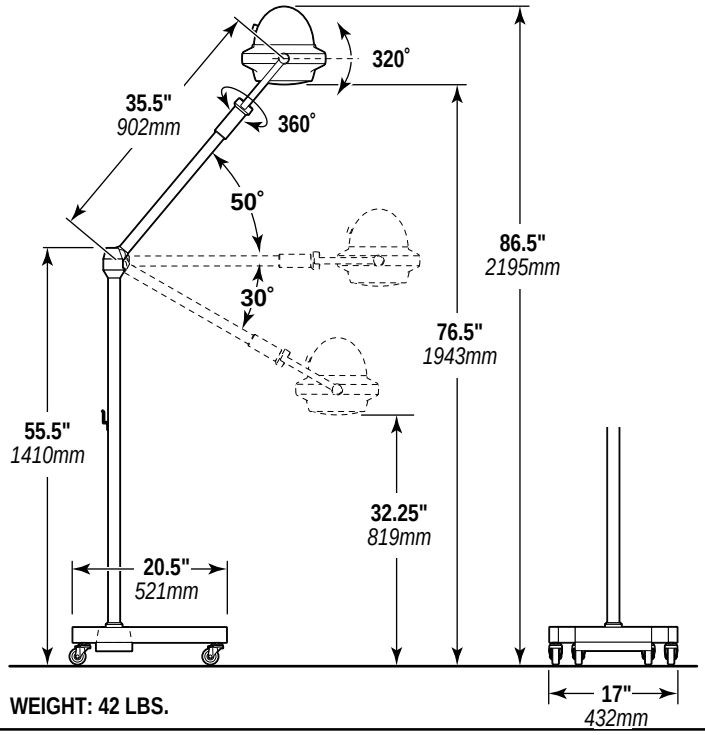
ST9



ST9W



ST9S



WEIGHT: 42 LBS.

SECTION I OPERATION

Model ST9, Ceiling Mount

1. Turn the power to the light fixture "ON" at the wall switch if applicable. Turn the power to the lighthead "ON" at the lighthead mounted Intensity control. See figure 1-1.

NOTE

To prolong bulb life, the Sof-Start bulb protection circuit will cause a slight delay before the bulb will illuminate.

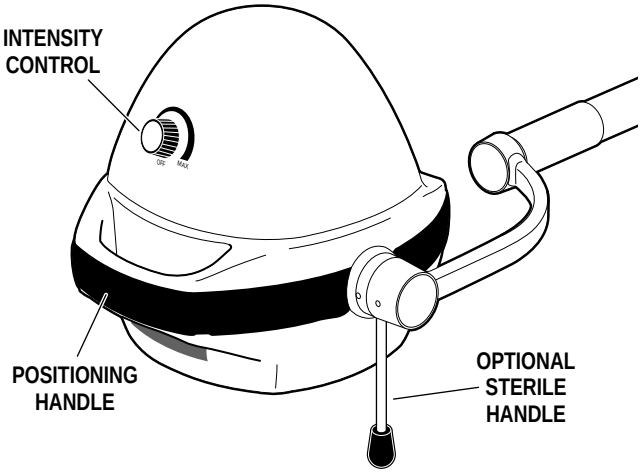


Figure 1-1. Model ST9 Lighthead

2. Using the positioning handle or the optional sterile handle, place the lighthead in the desired position. Rotate the intensity control to select the desired intensity. Refer to figure 1-2 for full positioning capabilities.

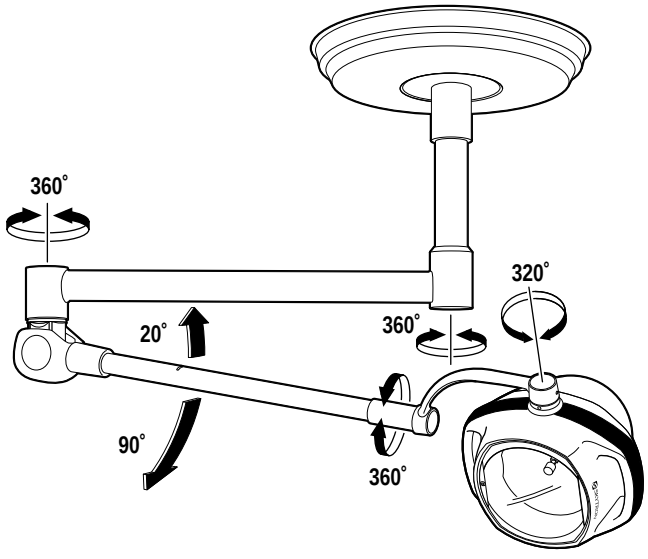


Figure 1-2. Model ST9

3. When the light is no longer required, turn the power to the light "OFF" at the lighthead mounted intensity control, return the lighthead to its full upright position and turn the power "OFF" at the wall switch if applicable.

Model ST9W, Wall Mount

1. Turn the power to the light fixture "ON" at the fixture "On/Off" switch located on the wall mount housing. See figure 1-3. Turn the power to the lighthead "ON" at the lighthead mounted Intensity control. See figure 1-1.

NOTE

To prolong bulb life, the Sof-Start bulb protection circuit will cause a slight delay before the bulb will illuminate.

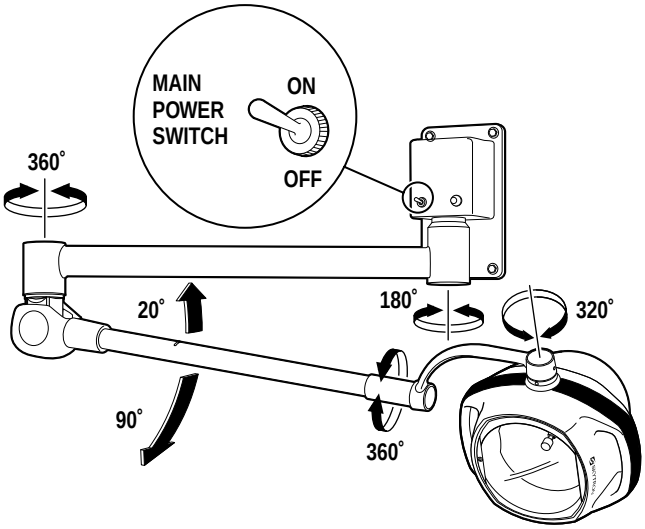


Figure 1-3. Model ST9W

2. Using the positioning handle, place the lighthead in the desired position. Rotate the intensity control to select the desired intensity. Refer to figure 1-3 for full positioning capabilities.

3. When the light is no longer required, turn the power to the light "OFF" at the lighthead mounted intensity control, return the lighthead to its horizontal position against the wall and turn the power "OFF" at the fixture "On/Off" switch.

Model ST9S, Portable Stand

1. Plug the power cord into 120 VAC outlet.

2. Using the positioning handle, place the lighthead in the desired position. Rotate the intensity control to turn the power to the fixture "ON" and select the desired intensity.

NOTE

To prolong bulb life, the Sof-Start bulb protection circuit will cause a slight delay before the bulb will illuminate.

CAUTION

Exercise caution when rolling the stand light to avoid getting caught on obstacles laying on the floor. Avoid a tripping hazard.

CAUTION

To ensure proper circuit grounding reliability and protection, always plug the fixture into a properly circuit protected electrical outlet.

Sterilization

Recommended sterilization parameters for optional sterilizable handle:

a. Prevac, 270° F, 4 minutes
b. Gravity, 250° F, 30 minutes
c. Flash, 270° F, 3 minutes

Always consult current AORN journal recommendations for proper sterilization procedures.

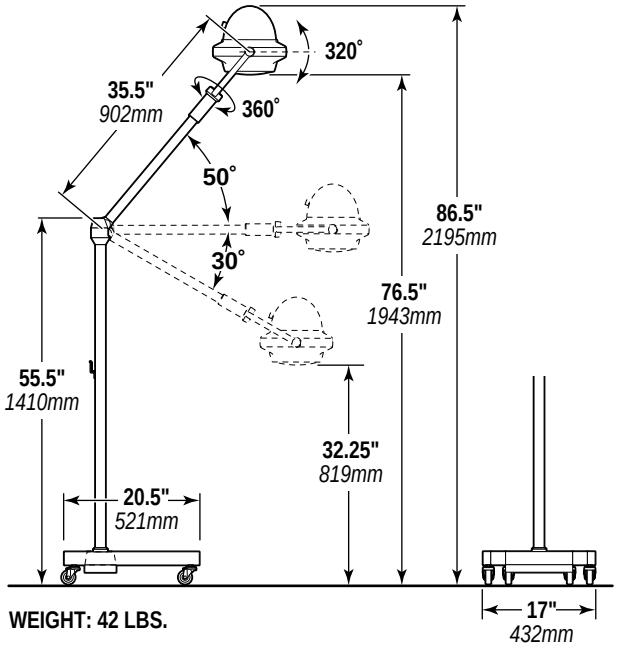


Figure 1-4. Model ST9S

SECTION II MAINTENANCE

General

To insure proper operation and extend the life of your SKYTRON examination lighting system, the following preventive maintenance procedures are recommended.

NOTE

All repairs should be made using only authorized SKYTRON replacement parts.

Daily Maintenance

Daily or between cases, the light fixture should be wiped down with a mild cleaning solution which will not affect the painted or acrylic parts.

• Before attempting cleaning, be sure power to the lighthead is "OFF" and the fixture has sufficiently cooled.

•Avoid the use of cleaning solutions which contain high concentrations of alcohol, ethelene glycol, phenol, iodophors, or glutaraldehyde based disinfectants. Some degree of staining, pitting, and discoloration may occur if these are used.

Always consult with the manufacturer of the cleaning agent for proper application and use. Always spot test on an inconspicuous area before use.

• Use plexi-glass cleaners, DO NOT use alcohol based cleaners on the acrylic diffusers.

• Avoid using excessive amounts of spray cleaners. Leakage of fluids into the lighthead interior may cause corrosion of electrical components.

Semi-Annual (6-months) Maintenance

•Clean diffuser/Filter Assembly

• DO NOT operate light without the filter/diffuser in place.

•Lubricate as necessary

•Check input and bulb voltage

•Check all fastening hardware

•Perform all necessary adjustments

Adjustments

As part of a regular preventive maintenance program, it is suggested that a check of the various positioning axes be made to verify proper tension adjustments. If any lighthead drift is noticed, all that is usually necessary is a minor adjustment. Adjustments can be accomplished following the procedures in the adjustment section of this manual.

Bulb Replacement

To replace the Halogen bulb, use the following procedure:

1. Ensure electrical power to the light is "OFF" and the bulb has cooled before changing.

2. Hold the diffuser with one hand, loosen the 1/4 turn screw and lower the diffuser assembly. See figure 2-1.

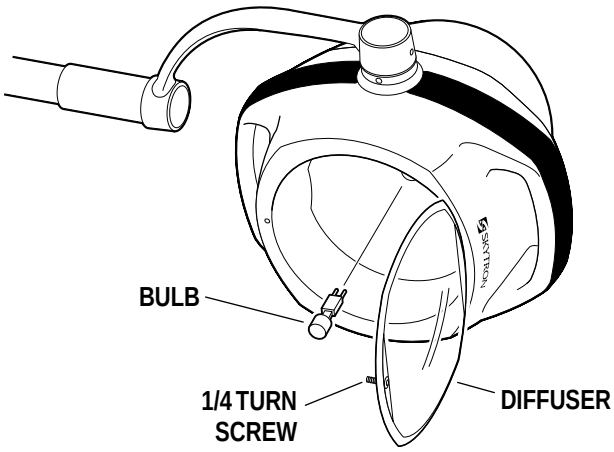


Figure 2-1.

⚠ **WARNING** ⚠

DO NOT attempt to remove the bulb by pulling on the glass surface or end cap. This may cause the bulb to break off in your hand.

3. Using caution not to touch the reflector surface, hold the bulb by the base and pull it out. See figure 2-2. Slightly working the bulb back and forth may aid in bulb removal.

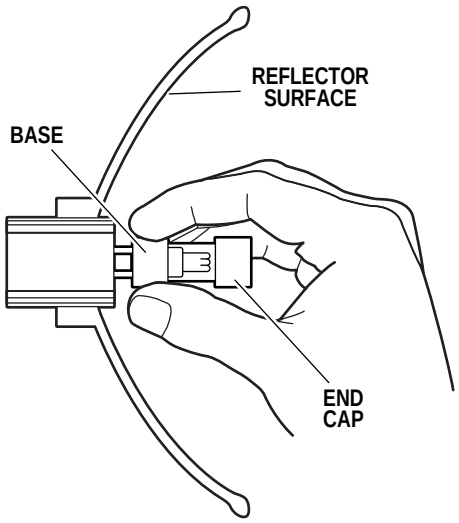


Figure 2-2.

NOTE

Halogen bulbs are sensitive to body oils. DO NOT handle the glass surface of bulb as body oil from your fingers can create a "hot spot" and may cause the bulb to burn out prematurely.

4. Holding the bulb by the base, plug it directly into the socket. DO NOT touch the glass portion of the bulb or reflector surface with your fingers. This can best be done by using the plastic wrapper that the bulb is packaged in or a clean cloth wrapped around the base of the bulb when installing.

NOTE

To extend the life of the bulb reflector surface, it should NOT be included in normal cleaning. It should be cleaned only if absolutely necessary. Clean gently with a clean, damp, soft cloth and a mild soap solution. NO abrasives.

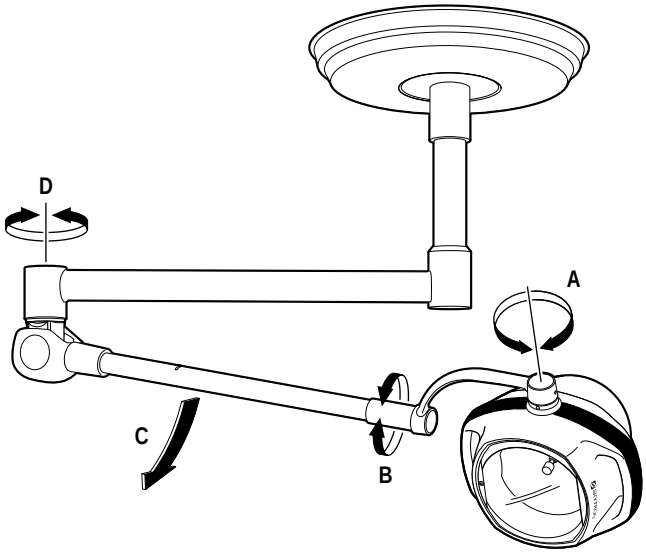
5. Replace the diffuser/filter assembly and secure with the diffuser 1/4 turn screw. DO NOT over tighten screw.

SECTION III ADJUSTMENTS

Check the light fixture axis tension adjustments by moving the lighthead through its full range of travel. See figure 3-1. All axis should move freely yet maintain any position without drifting. If an adjustment is required, use the following procedures.

NOTE

All fasteners are metric thread and require metric tools.



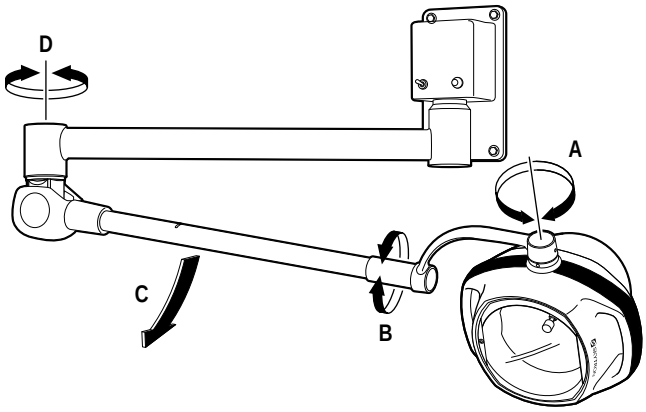


Figure 3-1. Adjustment Axis

WARNING

Disconnect electrical power to the fixture before attempting adjustments.

A. Lighthead Pitch Adjustment.

1. Locate the adjustment hole in the lighthead yoke. See figure 3-2.

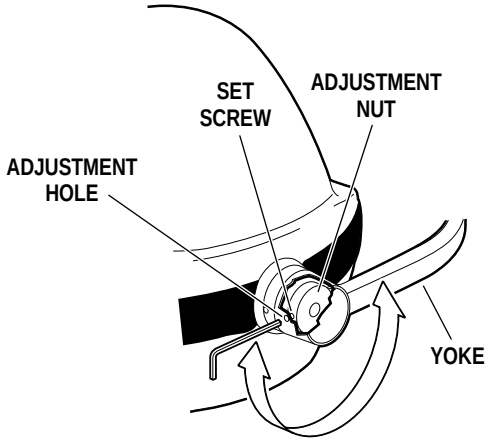


Figure 3-2. Lighthead Pitch Adjustment

2. Rotate the lighthead until a set screw is visible through the adjustment hole and loosen the set screw with an allen wrench.

3. Leave the allen wrench firmly seated in the set screw; this will hold the adjustment nut captive. Slightly rotate the lighthead clockwise (viewed from the yoke side) to decrease tension and counterclockwise to increase tension, as necessary.

4. When proper tension has been achieved, retighten set screw and remove the allen wrench.

B. Lighthead Roll Adjustment

1. Locate the adjustment hole in the bottom of the support arm collar. See figure 3-3.

CAUTION

Be sure electrical power is "OFF"

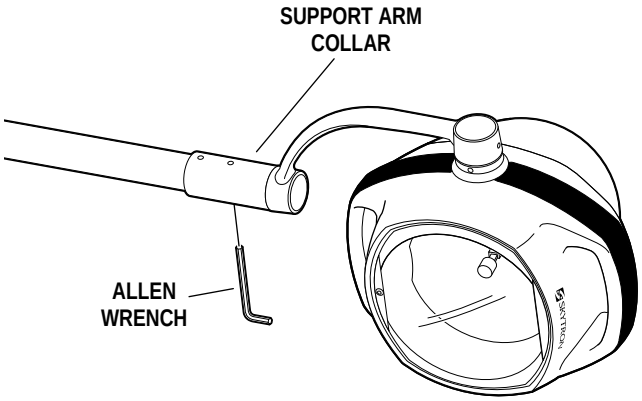


Figure 3-3. Lighthead Roll Adjustment

2. Rotate the lighthead until a set screw is visable through the adjustment hole and loosen the set screw with an allen wrench.

3. Leave the allen wrench firmly seated in the set screw; this will hold the adjustment nut captive. Slightly rotate the lighthead clockwise (viewed from the yoke side) to decrease tension and counterclockwise to increase tension, as necessary.

4. When proper tension has been achieved, retighten set screw and remove the allen wrench.

C. Vertical Travel

The vertical travel spring tension is set at the factory (ceiling and wall mount models) and should not need adjusting. However, if an adjustment is necessary, use the following procedure. See figure 3-4.

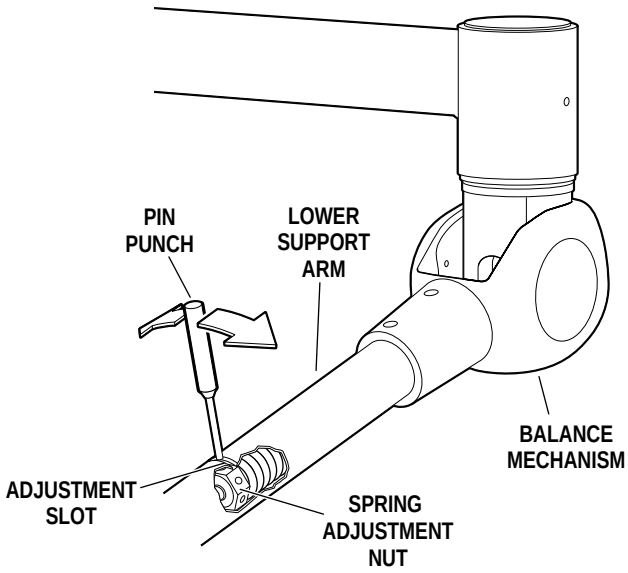


Figure 3-4. Vertical Travel Adjustment

1. Pull the lighthead downward until the adjustment nut is visible through the adjustment slot in the support arm.

2. Insert a pin punch through the adjustment slot and into one of the holes in the adjustment nut. Using the pin punch, turn the adjustment nut clockwise to increase the tension, counterclockwise to decrease the tension.

3. Test vertical travel and repeat adjustment procedure as needed.

D. Lighthead Horizontal Rotation Adjustment

The lighthead should maintain its position without drifting, yet move freely. Normally this adjustment is correct from the factory and does not change. If the lighthead drifts, the most probable cause is a non-plumb mounting hub.

Recheck the fixture mounting hub to make sure that it is plumb. In most cases this will solve any drifting problems. If not, use the following adjustment procedure to adjust the bearing preload. See figure 3-5.

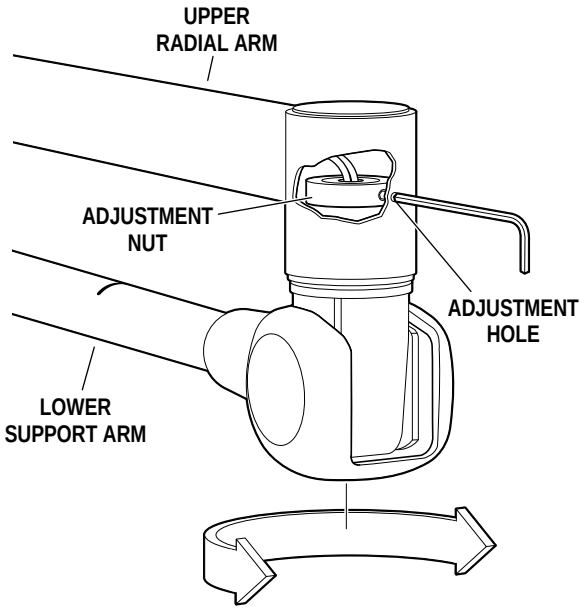


Figure 3-5. Horizontal Rotation Adjustment

1. Locate the adjustment hole and rotate the lower support arm until a set screw is visible in the adjustment nut. Loosen the set screw with an allen wrench.

2. Leave the allen wrench firmly seated in the set screw; this will hold the adjustment nut captive. Carefully rotate the lower support arm slightly. Move the arm counterclockwise (viewed from the bottom) to decrease tension and clockwise to increase the tension.

3. Tighten the set screw, remove the allen wrench and recheck the tension adjustment.

Bulb Voltage

The ST9 series is equipped with a voltage compensation device that will deliver the necessary bulb output with a voltage range of between 110VAC and 120VAC. Routine bulb voltage adjustments are not necessary if supply voltage falls within this range.

SECTION IV. REPLACEMENT PARTS

This section contains the exploded views and replacement parts lists for the serviceable components of the SKYTRON ST9 Series Lighting fixtures

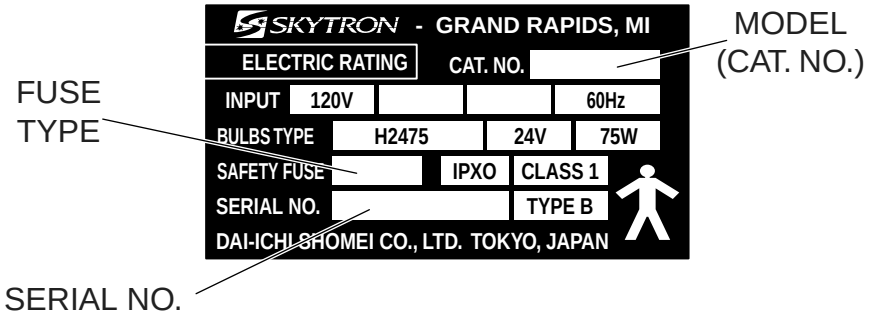
Each serviceable part in these exploded views is identified by a reference number. Use this number to locate necessary part information in the parts list adjacent to the exploded view.

Always use the complete SKYTRON part number and description when ordering replacement parts.

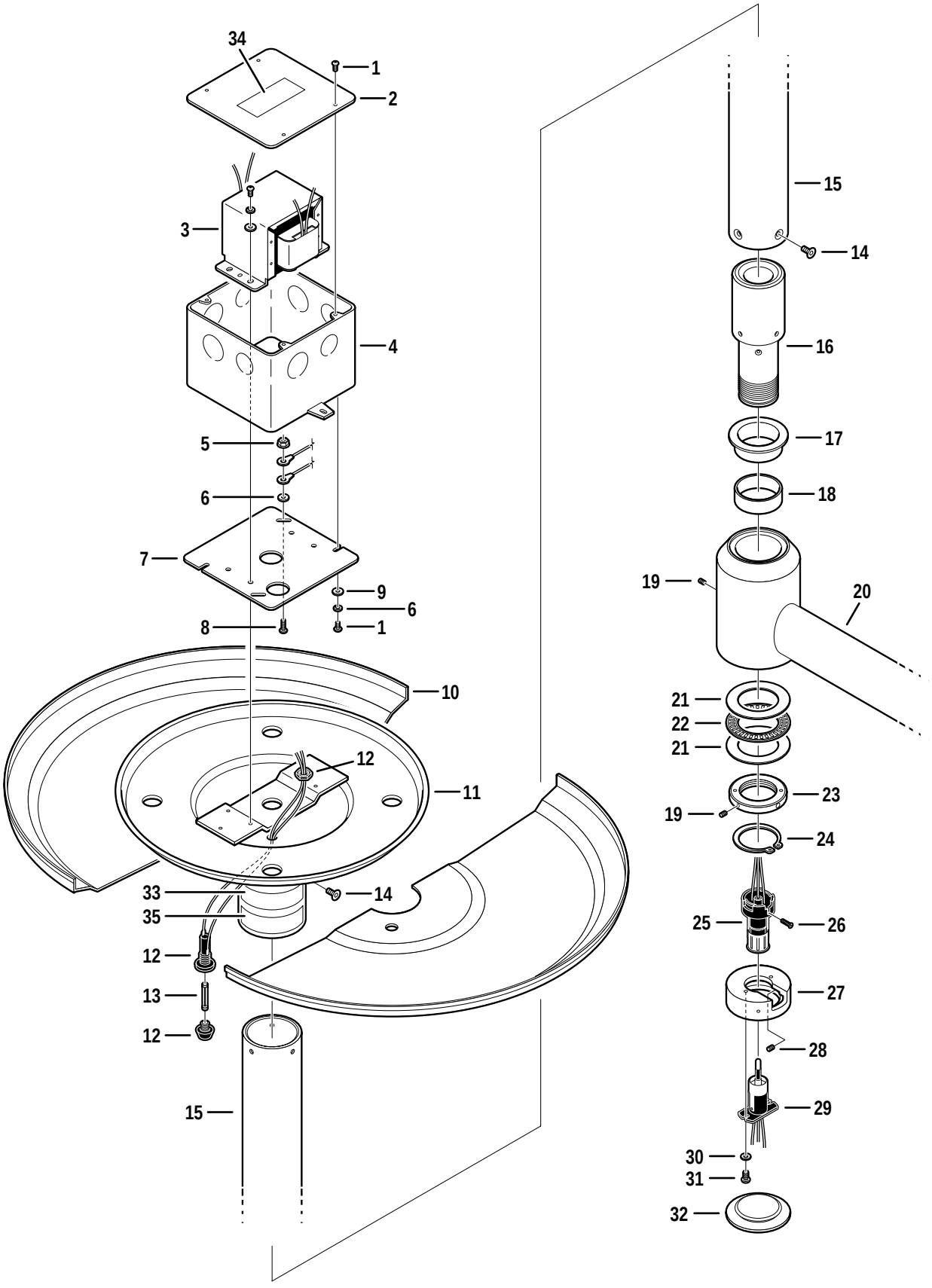
Abbreviations

As Required	A/R
Optional	opt
Serial Number	S.N.
Not Shown	NS

The lighthead Data Label contains the lighthead model number, bulb type, fuse type, electrical specifications and product serial number.



1. CEILING MOUNT ASSEMBLY



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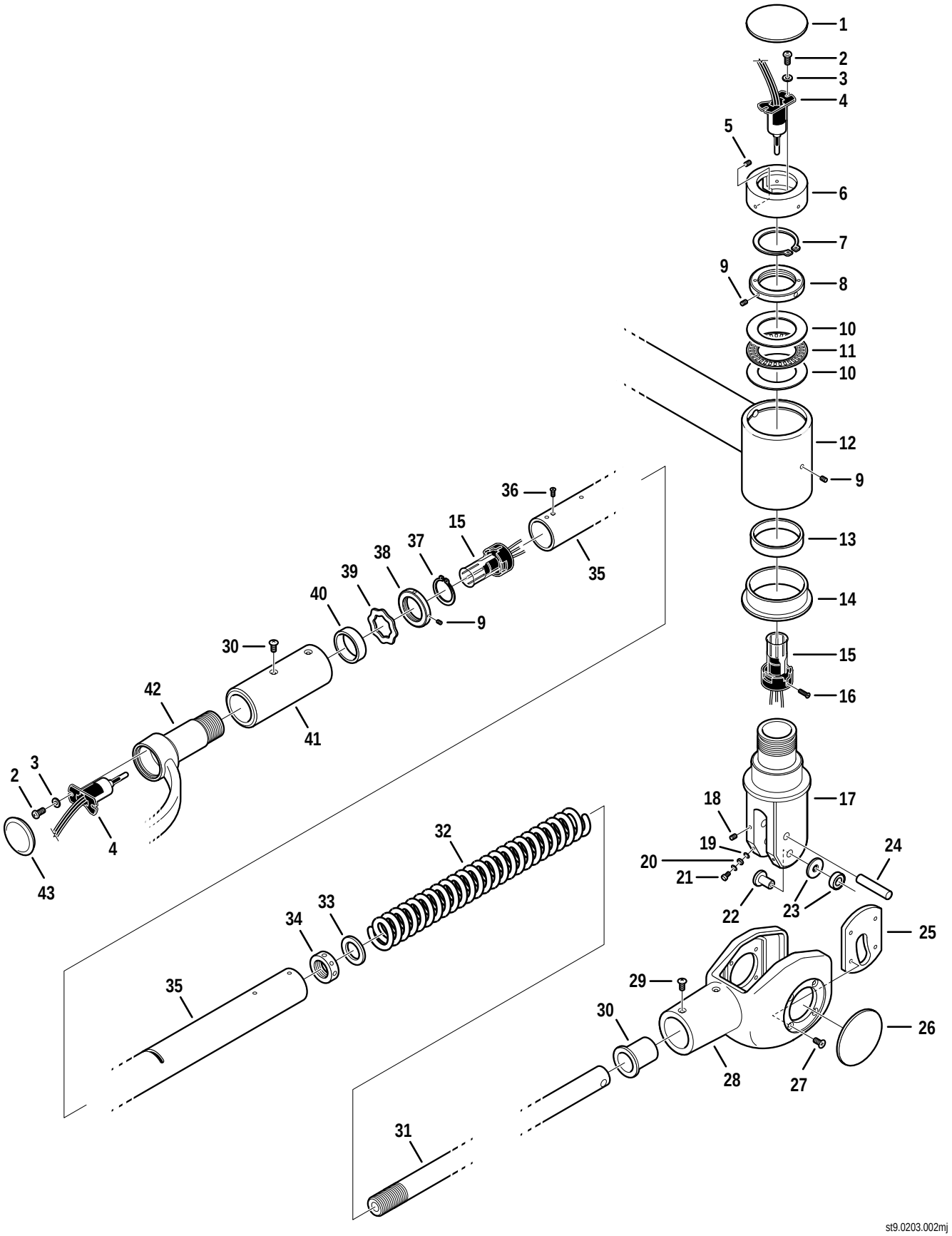
1. CEILING MOUNT ASSEMBLY

Item	Part No.	Description	Qty.
1	B5-011-03	SCREW, phillips, M4x10	A/R
2	B4-242-63	COVER, transformer housing	1
3	B4-242-72	TRANSFORMER, 80W, 25V	1
4	B4-242-03	HOUSING, transformer	1
5	B4-020-22	NUT, M4	A/R
6	B4-210-14	WASHER, lock, M4	A/R
7	B4-242-04	PLATE, transformer mounting	1
8	B9-410-09	SCREW, phillips, M4x15	A/R
9	B5-010-99	WASHER, flat, M4	A/R
10	B4-241-01	CEILING COVER	1
11	B4-241-02	MOUNTING HUB	1
12	B1-010-01	FUSEHOLDER ASSEMBLY	1
13	B4-242-64	FUSE, 1.75 A FA	1
14	B3-310-11	SCREW, allen, countersunk, M5x10	8
15	B4-241-03	VERTICAL SUPPORT TUBE (VST)	1
16	B4-241-04	PIVOT SHAFT	1
17	B4-242-05	BUSHING	1
18	B4-242-06	BUSHING	1
19	B1-010-37	SCREW, set, M4x8	2
20	B4-241-05	UPPER ARM	1
21	B4-242-08	WASHER, thrust	2
22	B4-242-09	BEARING, thrust	1
23	B4-242-10	NUT	1
24	B4-242-11	SNAP RING	1
25	B3-210-05	BRUSH BLOCK	1
26	B5-010-81	SCREW, phillips M3x10	1
27	B4-242-13	MOUNT, slip ring	1
28	B4-020-39	SCREW, set, M3x4	3
29	B3-210-04	SLIP RING	1
30	B5-010-99	WASHER, flat, M4	A/R
31	B3-220-16	SCREW, phillips, M4x8	2
32	B4-241-06	COVER	1
33	B4-242-65	DECAL, fuse type	1
34	B4-242-66	DECAL, caution	1
35	B4-242-67	DECAL, serial number	1
	B4-242-68	DECAL, Entela	1

2. BALANCE MECHANISM ASSEMBLY



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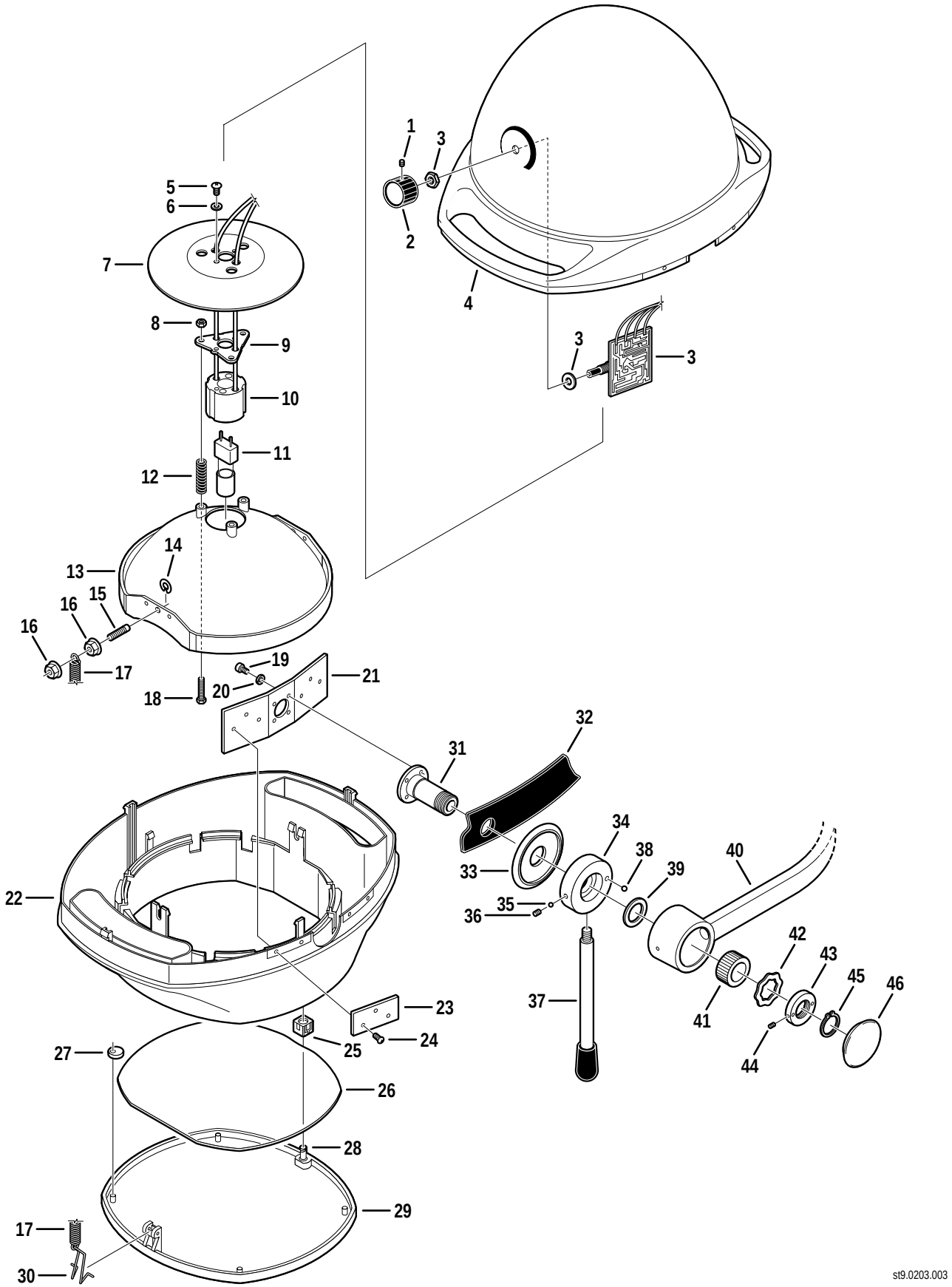
2. BALANCE MECHANISM ASSEMBLY

Item	Part No.	Description	Qty.
1	B4-241-06	COVER	1
2	B3-220-16	SCREW, phillips, M4x8	4
3	B5-010-99	WASHER, flat, M4	4
4	B3-210-04	SLIP RING	2
5	B4-020-39	SCREW, set, M3x4	3
6	B4-242-13	MOUNT, slip ring	1
7	B4-242-11	SNAP RING	1
8	B4-242-10	NUT	1
9	B1-010-37	SCREW, set, M4x8	4
10	B4-242-08	WASHER, thrust	2
11	B4-242-09	BEARING, thrust	1
12	B4-241-05	UPPER ARM	1
13	B4-242-15	BUSHING	1
14	B4-242-16	BUSHING	1
15	B3-210-05	BRUSH BLOCK	2
16	B5-010-81	SCREW, phillips, M3x10	1
17	B4-241-07	JOINT, upper knuckle	1
18	B9-210-82	SET SCREW	2
19	B3-210-32	WASHER, bearing	4
20	B3-210-33	BEARING	2
21	B9-210-81	SCREW, allen, M5x25	2
22	B4-242-17	PIN, pivot	2
23	B4-242-18	WASHER & BEARING ASSEMBLY	2
24	B4-242-20	PIN	1
25	B4-242-21	GUIDE, bearing, left	1
	B4-242-22	GUIDE, bearing, right	1
26	B4-241-06	COVER	2
27	B4-242-23	SCREW, phillips, countersunk, M4x12	8
28	B4-241-08	HOUSING, BOM, lower	1
29	B5-011-03	SCREW, phillips, M4x10	4
30	B4-242-24	BUSHING	1
31	B4-241-09	SHAFT, balance	1
32	B4-241-10	SPRING	1
33	B4-242-25	WASHER	1
34	B4-242-26	NUT, spring adjustment	1
35	B4-241-11	SUPPORT ARM	1
36	B5-010-81	SCREW, phillips, M3x10	1
37	B4-242-27	SNAP RING	1
38	B4-242-28	NUT	1
39	B4-242-29	WASHER, wave	1
40	B4-242-30	BUSHING	1
41	B4-241-12	BEARING BODY	1
42	B4-241-13	YOKE, lighthead	1
43	B4-241-14	COVER, yoke	1
	B4-242-69	WIRE, red, 14AWG	A/R
	B4-242-70	WIRE, white, 14AWG	A/R
	B4-242-71	WIRE, green, 14AWG	A/R

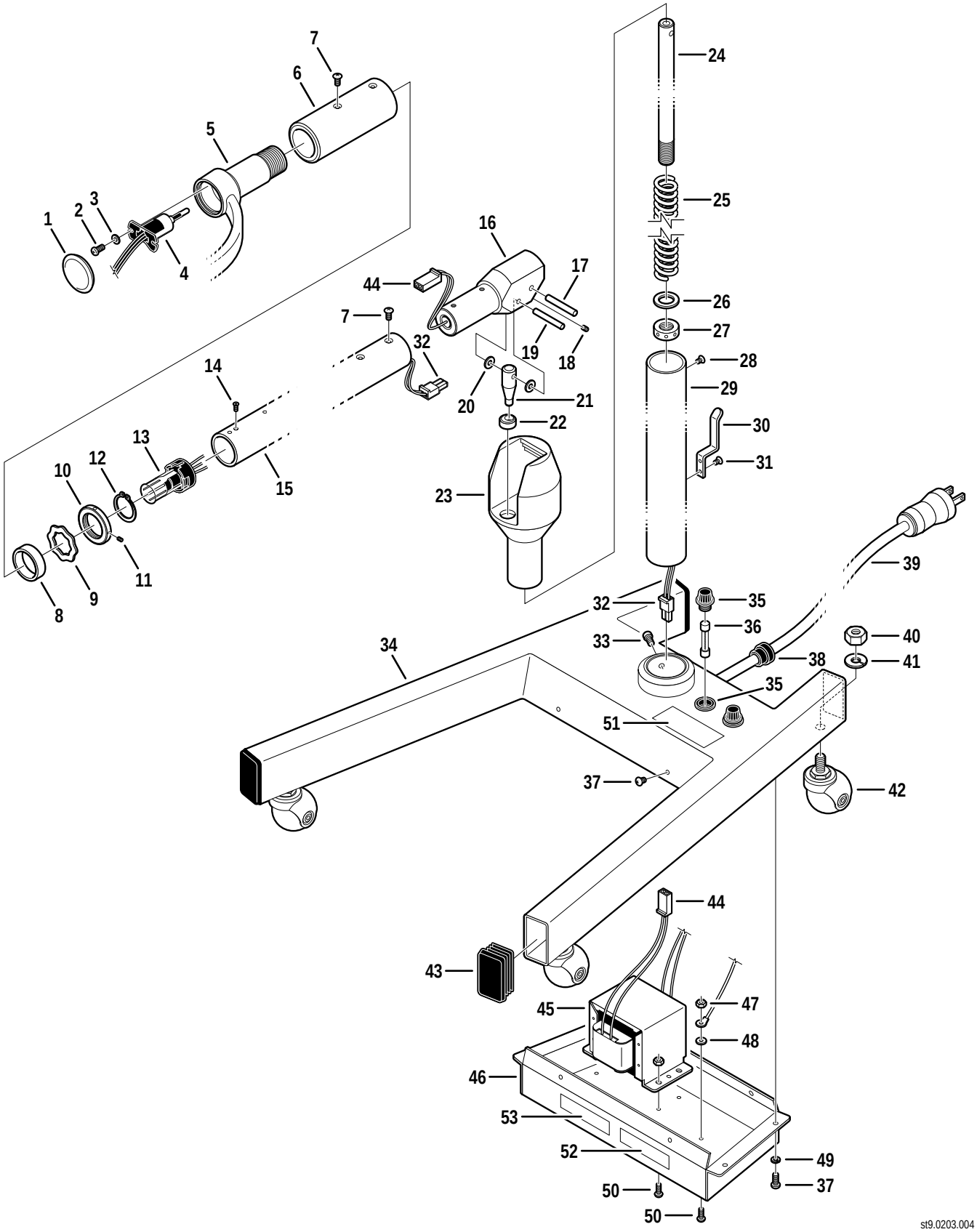
3. ST9 LIGHTHEAD ASSEMBLY



3. ST9 LIGHTHEAD ASSEMBLY

Item	Part No.	Description	Qty.
1	B4-020-39	SCREW, set, M3x4	1
2	B9-210-20	KNOB, intensity control	1
3	B4-240-02	INTENSITY CONTROL ASSEMBLY	1
4	B4-240-03	SHELL, lighthead	1
5	B9-410-15	SCREW, phillips, M3x25	2
6	B9-410-16	WASHER, flat, M3	2
7	B1-410-27	HEAT SINK	1
8	B9-410-17	NUT, hex, M4	3
9	B1-410-28	MOUNT, bulb socket	1
10	B1-410-29	SOCKET, bulb	1
11	B4-010-29	BULB, halogen, 24V, 75W	1
12	B1-410-30	SPRING	3
13	B1-410-31	REFLECTOR	1
14	B9-410-21	E-RING	2
15	B4-242-31	SCREW, reflector	2
16	B4-020-22	NUT, hex, M4	3
17	B4-242-32	SPRING	1
18	B9-410-22	BOLT, hex, M4x20	3
19	B4-030-19	BOLT, allen, M4x12	4
20	B4-210-14	WASHER, lock, M4	4
21	B4-242-33	PLATE, trunion	1
22	B4-240-05	FACE, lighthead	1
23	B4-242-34	PLATE	2
24	B3-220-15	SCREW, phillips, M4x6	6
25	B1-410-37	RETAINER, 1/4 turn screw	1
26	B4-240-06	FILTER	1
27	B1-410-41	MOUNT, filter	4
28	B1-410-38	SCREW, 1/4 turn	1
29	B4-240-07	DIFFUSER	1
30	B4-242-35	SPRING, diffuser	1
31	B4-241-15	TRUNION (A)	1
32	B4-240-08	BELT	1
33	B4-240-09	COVER	1
34	B4-241-16	TRUNION (B)	1
35	B4-241-17	BALL, 4mm	1
36	B4-242-36	SCREW, cover	1
37	B4-242-02	HANDLE, sterilizable positioning	opt.
38	B4-241-18	BALL, 5mm	1
39	B4-242-37	WASHER	1
40	B4-241-13	YOKE, lighthead	1
41	B4-242-38	BEARING, needle	1
42	B4-242-39	WASHER, wave	1
43	B4-242-40	NUT	1
44	B1-010-37	SCREW, set, M4x8	1
45	B4-242-41	SNAP RING	1
46	B4-241-19	COVER	1

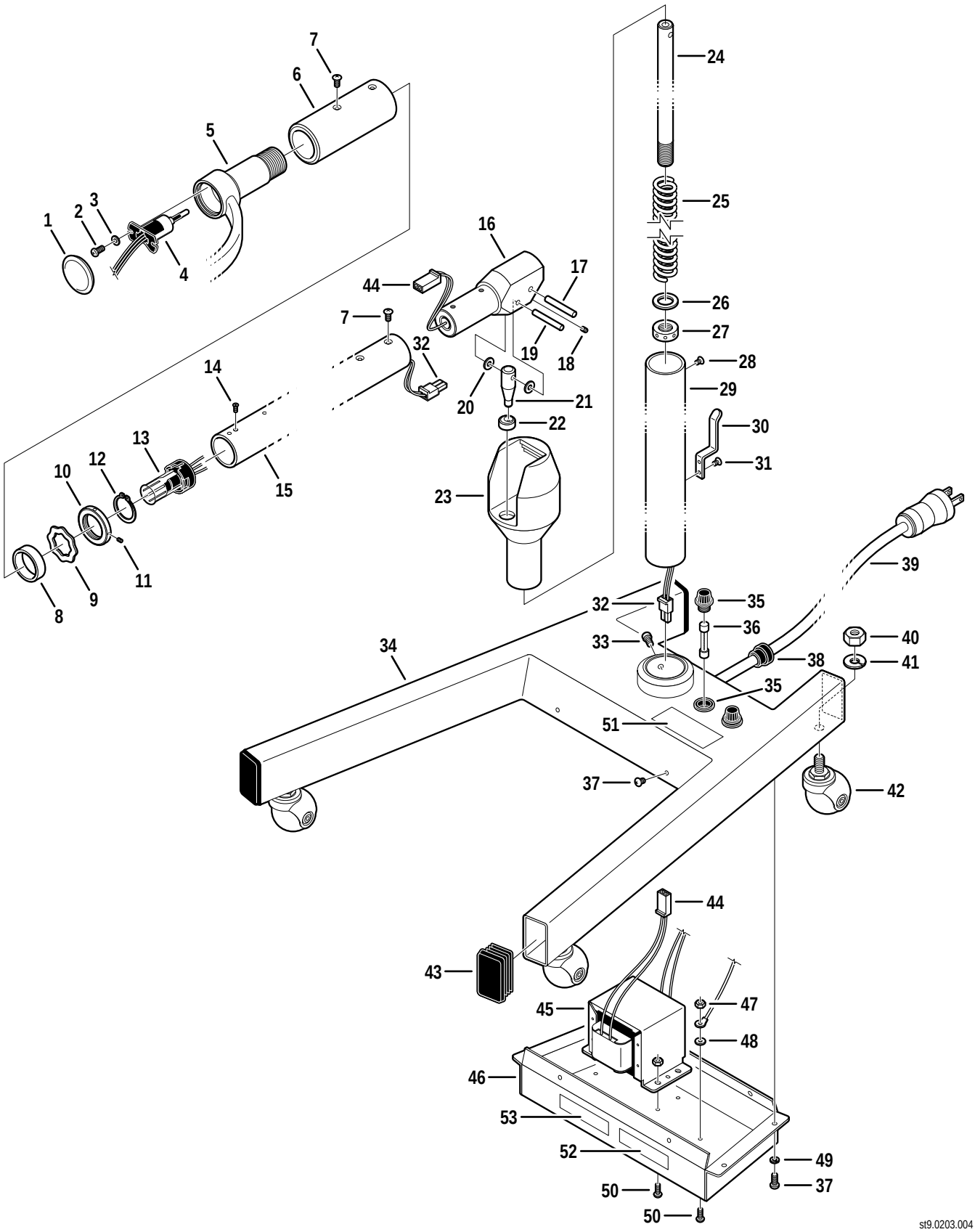
4. PORTABLE STAND ASSEMBLY



4. PORTABLE STAND ASSEMBLY

Item	Part No.	Description	Qty.
1	B4-241-14	COVER, yoke	1
2	B3-220-16	SCREW, phillips, M4x8	2
3	B5-010-99	WASHER, flat, M4	2
4	B3-210-04	SLIP RING	1
5	B4-241-13	YOKE, lighthead	1
6	B4-241-12	BEARING BODY	1
7	B5-011-03	SCREW, phillips, M4x10	4
8	B4-242-30	BUSHING	1
9	B4-242-29	WASHER, wave	1
10	B4-242-28	NUT	1
11	B1-010-37	SCREW, set, M4x8	1
12	B4-242-27	SNAP RING	1
13	B3-210-05	BRUSH BLOCK	1
14	B5-010-81	SCREW, phillips, M3x10	1
15	B4-241-20	SUPPORT ARM	1
16	B4-241-21	JOINT, upper knuckle	1
17	B4-241-22	PIN, pivot (A)	1
18	B1-010-37	SCREW, set, M4x8	1
19	B4-241-23	PIN, pivot (B)	1
20	B4-242-42	WASHER, pivot pin (B)	2
21	B4-241-24	LEVER	1
22	B4-241-25	LEVER SOCKET	1
23	B4-241-26	JOINT, lower knuckle	1
24	B4-241-27	BALANCE SHAFT	1
25	B4-241-28	SPRING	1
26	B4-242-43	WASHER	1
27	B4-242-44	NUT	1
28	B5-011-03	SCREW, phillips, M4x10	2
29	B4-241-29	STAND POLE	1
30	B4-242-45	CORD HOOK	1
31	B5-011-03	SCREW, phillips, M4x10	2
32	B4-242-46	CONNECTOR, male, 2-pin	2
33	B4-211-03	SCREW, allen, M5x10	2
34	B4-241-30	BASE	1
35	B1-010-01	FUSE HOLDER ASSEMBLY	2
36	B4-242-64	FUSE, 1.75A, FA	2
37	B3-220-16	SCREW, phillips, M4x8	8
38	B4-242-47	GROMMET	1
39	B4-242-48	CORD, power	1
40	B4-242-49	NUT	4
41	B4-242-50	WASHER, lock	4
42	B4-242-51	CASTER	4
43	B4-241-31	COVER, base	4
44	B4-242-52	CONNECTOR, female, 2-pin	2
45	B4-220-25	TRANSFORMER, 80W, 25V	1
46	B4-241-32	HOUSING, transformer	1
47	B4-020-22	NUT, M4	5
48	B5-010-99	WASHER, flat, M4	A/R

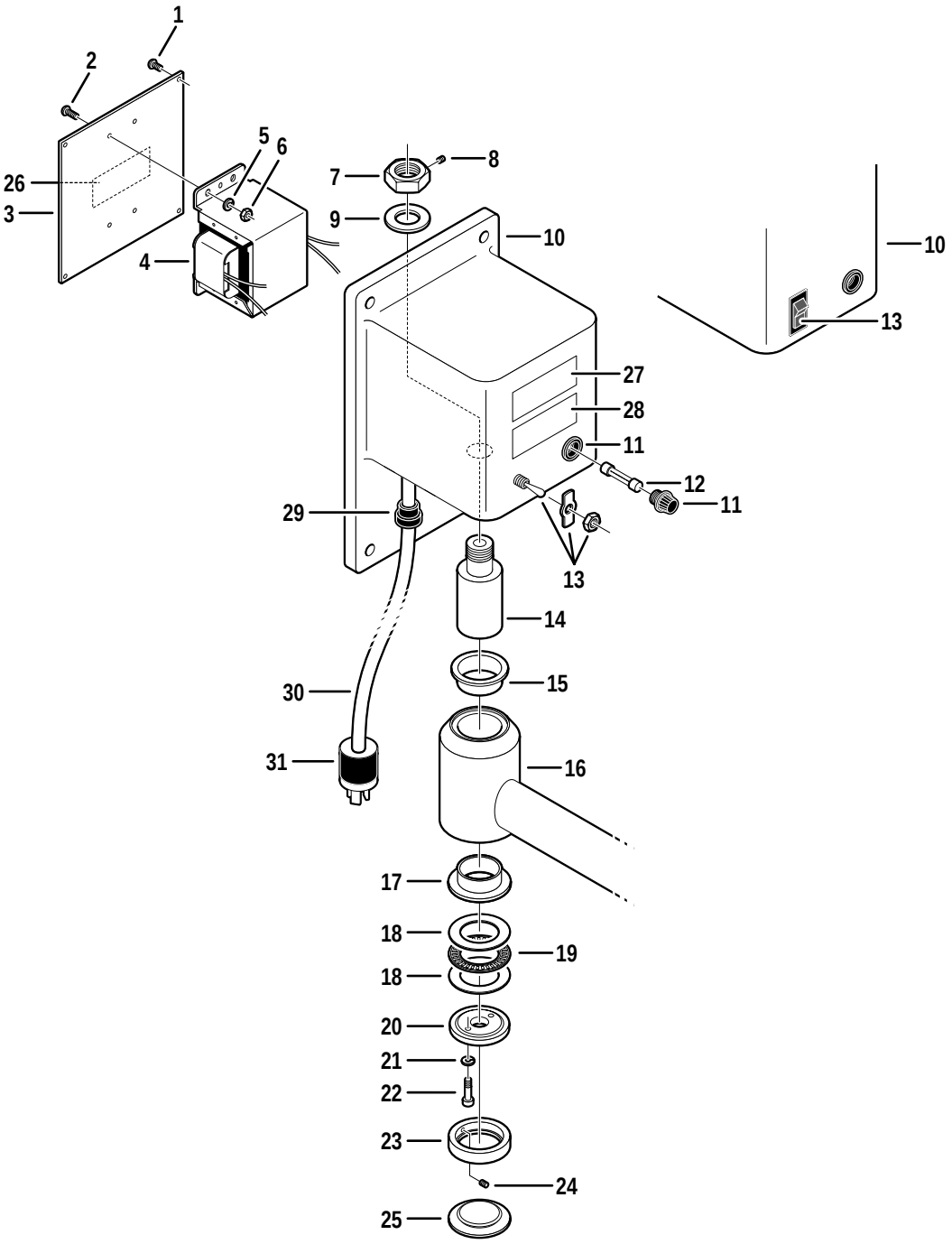
4. PORTABLE STAND ASSEMBLY (continued)



4. PORTABLE STAND ASSEMBLY (continued)

Item	Part No.	Description	Qty.
49	B4-210-14	WASHER, lock, M4	A/R
50	B4-242-53	SCREW, phillips, M4x12	5
51	B4-242-65	DECAL, fuse type	1
52	B4-242-66	DECAL, caution	1
53	B4-242-67	DECAL, serial number	1

5. WALL MOUNT ASSEMBLY



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5. WALL MOUNT ASSEMBLY

Item	Part No.	Description	Qty.
1	B3-220-16	SCREW, phillips, M4x8	4
2	B4-242-53	SCREW, phillips, M4x12	4
3	B4-242-54	PLATE, transformer mounting	1
4	B4-220-25	TRANSFORMER, 80W, 25V	1
5	B4-210-14	WASHER, lock, M4	4
6	B4-020-22	NUT, M4	4
7	B4-242-55	NUT	1
8	B1-010-37	SCREW, set, M4x8	1
9	B4-242-56	WASHER	1
10	B4-241-33	HOUSING, wall mount, S.N. 05051769 & P	1
	B4-241-33-1	HOUSING, wall mount, SPST switch	1
	B4-241-35	HOUSING, wall mount, DPST switch	1
11	B1-010-01	FUSE HOLDER ASSEMBLY	1
12	B4-242-64	FUSE, 1.75A, FA	1
13	B4-242-57	SWITCH ASSEMBLY, S.N. 05051769 & P	1
	B9-210-16	SWITCH, main power, SPST, green	1
	B4-242-73	SWITCH, main power, DPST, yellow	1
14	B4-241-34	BEARING SHAFT	1
15	B4-242-58	BUSHING	1
16	B4-241-05	UPPER ARM	1
17	B4-242-59	BUSHING	1
18	B4-242-08	WASHER, thrust	2
19	B4-242-09	BEARING, thrust	1
20	B4-242-60	MOUNT	1
21	B1-240-03	WASHER, lock, M6	2
22	B4-242-61	BOLT, allen, M6x15	2
23	B4-242-62	MOUNT PLATE	1
24	B1-010-37	SCREW, set, M4x8	3
25	B4-241-06	COVER	1
26	B4-242-66	DECAL, caution	1
27	B4-242-67	DECAL, serial number	1
28	B4-242-65	DECAL, fuse type	1
29	B4-242-47	GROMMET	1
30	B4-242-74	CORD, power	1
31	B4-242-73	PLUG, twist lock	1

SKYTRON SURGICAL LIGHTS AND TABLES LIMITED WARRANTY

Limited Warranty. SKYTRON, a Division of the KMW Group, Inc., warrants only to the original purchaser (the "Customer") that the products that it sells, either directly or through its distributors or other authorized representatives, shall not be "defective" for the applicable time provided for, and subject to the conditions and exceptions stated in, this warranty. A product shall be considered "defective" if SKYTRON determines that it is defective in materials or workmanship and that the defect materially impairs the value of the product under normal use, maintenance and service. This warranty does not apply to (i) any product that is modified or altered, (ii) minor product adjustments necessitated by ordinary wear and tear or (iii) damage to the products caused by accident, use of replacement parts other than original OEM parts, unauthorized repairs, improper installation or use, abuse, lack of user training, or failure to comply with SKYTRON's instructions. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE.

Warranty Period. The warranty on replacement parts, spares, bulbs (for surgical lights), pads and accessory items (for surgical tables) shall extend for 90 days from the date of receipt by the Customer. The warranty on all SKYTRON Surgical Lights and Tables shall extend for two years from (i) the initial installation of the product by Customer or (ii) the first anniversary of the date of shipment to the Customer, whichever is earlier. If SKYTRON supplies a replacement part or product under this warranty, then the warranty on such replacement part or product shall terminate upon (i) 90 days or (ii) the end of the remaining period of the original warranty, whichever is of greater benefit to the Customer.

Remedies. If a product proves defective during the applicable warranty period, and if the Customer gives SKYTRON and the distributor from whom the Customer purchased the product written notice of the defect within such period and complies with all other terms of this warranty, then SKYTRON or its authorized service agent shall repair or replace the defective product or part thereof, at SKYTRON's option. If necessary, this warranty includes the cost of service labor and travel time to the site of product use for two years; provided, however, that delays caused by the Customer in accessing the product for repair will be chargeable to the Customer at SKYTRON's authorized service representative's normal hourly rate. If SKYTRON (or its authorized representative) fails to repair or replace any defective product or part thereof within a reasonable time, then SKYTRON shall be liable for the reasonable cost of repair by a third party, but the Customer shall not obtain repair by a third party without giving SKYTRON at least 15 days prior written notice, during which time SKYTRON (or its authorized representative) may repair or replace the defective product or part thereof. This is the sole and exclusive remedy for any defect.

Limitations. SKYTRON SHALL NOT BE LIABLE TO THE CUSTOMER OR TO ANYONE ELSE FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, INDIRECT, OR PUNITIVE DAMAGES ARISING FROM ANY DEFECT, DELAY, NONDELIVERY, RECALL, OR OTHER BREACH BY SKYTRON, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, DEATH, PROPERTY DAMAGE, LOST PROFITS, OR OTHER ECONOMIC INJURY. SKYTRON shall not be liable to the Customer or anyone else in tort for any negligent design or manufacture of any products, or for the omission of any warning with respect thereto.

Miscellaneous. No dealer, employee, or other representative of SKYTRON may extend or enlarge this warranty, waive any of the limitations, or make any different or additional warranties with respect to the products. Any statements to the contrary are null and void unless made in writing signed by an authorized officer of SKYTRON. This warranty shall be governed by Michigan law. Any action arising out of or relating to this warranty shall be brought in any federal or state court located in Kent County, Michigan and having jurisdiction of the subject matter, and any such court shall have personal jurisdiction over the parties and the parties waive any objection that the court is an inconvenient forum.

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